Author Index to Volume 181

Achiba, Y., see Y. Kajii 181 (1991) 100
Adhikari, S.K., Anomalies of variational phase shifts 181 (1991) 435
Adolph, H.G., see P. Politzer 181 (1991) 78
Agranat, I., T.P. Radhakrishnan, W.C. Herndon and A. Skancke, Evaluation of Y- versus linear-delocalization and the role of charge alternation in trimethylenemethane dianion and butadiene dianions 181 (1991) 117
Agrawal, R.K. and V.S. Varma, Phase transition in an ensemble of anharmonic oscillators 181 (1991) 441
Akamatsu, N., K. Domen, C. Hirose, T. Onishi, H. Shimizu and K. Masutani, SFG study of rotational anisotropy of cadmium arachidate Langmuir–Blodgett films 181 (1991) 175
Alfimov, M.V., see M.F. Budyka 181 (1991) 59
Al Jghgami, I.F., see A.P. Losev 181 (1991) 45
Almlöf, J., Elimination of energy denominators in Møller–Plesset perturbation theory by a Laplace transform approach 181 (1991) 319
Almlöf, J., see M. Häser 181 (1991) 497
Andreocci, M.V., M. Bossa, A. Furlani, G. Polzonetti and M.V. Russo, Iodine–polyphenylacetylene charge-transfer complex: an ab initio quantum-chemical assessment 181 (1991) 582
Andrews, L., see Z. Mielke 181 (1991) 355
Angerhofer, A., see V. Aust 181 (1991) 213
Asahi, T., see A. Osuka 181 (1991) 413, 419
Atkinson, J.B., see W. Kedzierski 181 (1991) 427
Aust, V., A. Angerhofer, J. Ullrich, J.U. von Schütz, H.C. Wolf and R.J. Cogdell, ADMR of carotenoid triplet states in bacterial photosynthetic antenna and reaction center complexes 181 (1991) 213

Balasubramanian, K., see Z. Ma 181 (1991) 467
Banerjee, A.K., see L. Kundu 181 (1991) 569
Basché, Th. and C. Bräuchle, Temperature dependent hole-burning study of dye molecules adsorbed on metal oxide powders 181 (1991) 179
Batchelor, S.N., K.A. McLauchlan and I.A. Shkrob, Time-resolved reaction yield detected magnetic resonance (RYDMR) 181 (1991) 327
Bauschlicher Jr., C.W. and H. Partridge, Mg^+–ligand binding energies 181 (1991) 129
Bauschlicher Jr., C.W., see M. Sodupe 181 (1991) 321
Beavis, R.C. and B.T. Chait, Velocity distributions of intact high mass polypeptide molecule ions produced by matrix assisted laser desorption 181 (1991) 479
Benning, P.J., see G.H. Kroll 181 (1991) 112
Berlyand, L.V., N.V. Chukanov and V.A. Dubovitsky, Exactly solvable random model and IR spectroscopy of a strained defective lattice 181 (1991) 450
Bhattacharyya, S.N., see R. Sen 181 (1991) 288
Bhattacharyya, S.P., see R. Sen 181 (1991) 288
Bhattacharyya, S.P., see P. Dutta 181 (1991) 293
Biczok, L., see M. Hugerat 181 (1991) 400

Birk, H. and H. Jones, Diode-laser measurement of the infrared spectrum of tin monosulfide 181 (1991) 245
Bjerre, N., I. Hazell and D.C. Lorents, Spin–orbit coupling in H_3 181 (1991) 301
Börner, K., G. Diezemann, E. Rössler and H.M. Vieth, Low-temperature methyl group dynamics of hexamethylbenzene in crystalline and glassy matrices as studied by ^2H NMR 181 (1991) 563
Bossa, M., see M.V. Andreocci 181 (1991) 582
Bräuchle, C., see Th. Basché 181 (1991) 179
Budyka, M.F., A.G. Rachinsky and M.V. Alfimov, Donor–acceptor complexes: the model of unlimited co-aggregation or polycomplexes formation 181 (1991) 59
Byteva, I.M., see A.P. Losev 181 (1991) 45

Campagnola, P.J., D.M. Cyr and M.A. Johnson, Size-dependent collisional incorporation of D_2O into $(H_2O)_n^-$ around $n=15$: implications on the origin of magic numbers in the hydrated electron cluster distribution 181 (1991) 206
Carrere, D., see L. Schriver 181 (1991) 505
Castleman Jr., A.W., see B.C. Guo 181 (1991) 16
Cederbaum, L.S. and H.-D. Meyer, On natural orbitals for properties 181 (1991) 163
Chabal, Y.J., see P. Dumas 181 (1991) 537
Chait, B.T., see R.C. Beavis 181 (1991) 479
Chen, R., A.G. Marshall and M. Wang, Ion-locked cyclotron resonance: a means for instantaneously changing ion cyclotron orbital radius 181 (1991) 168
Chen, X., see K. Du 181 (1991) 344
Chen, Y., see G.H. Kroll 181 (1991) 112
Chernyak, V. and R. Reisfeld, Spectroscopic behaviour of malachite green in sol–gel glasses 181 (1991) 39
Chibante, L.P.F., see G.H. Kroll 181 (1991) 112
Chowdhury, M., see L. Kundu 181 (1991) 569
Chukanov, N.V., see L.V. Berlyand 181 (1991) 450
Cioslowski, J., Electronic structures of the icosahedral $C_{60}H_{60}$ and $C_{60}F_{60}$ molecules 181 (1991) 68
Cogdell, R.J., see V. Aust 181 (1991) 213
Colson, S.D., see G. Reiser 181 (1991) 1
Cornell, B.A., see F. Separovic 181 (1991) 157
Cyr, D.M., see P.J. Campagnola 181 (1991) 206
Cyvin, S.J., Note on the series of fully benzenoid hydrocarbons with a constant number of isomers 181 (1991) 431

Dantus, M., M.H.M. Janssen and A.H. Zewail, Femtosecond probing of molecular dynamics by mass-spectrometry in a molecular beam 181 (1991) 281
Darsey, J.A., D.W. Noid and B.R. Upadhyaya, Application of neural network computing to the solution for the ground-state eigenenergy of two-dimensional harmonic oscillators, Chem. Phys. Letters 177 (1991) 189. Erratum 181 (1991) 386
Datar, A.S. and S.D. Prasad, Adsorbate clustering and surface rates above T_c: a modified mean-field approach 181 (1991) 445
De Santis, A., A. Gregori and D. Rocca, Microscopic configurations and shape of the atom–atom pair distribution function of liquid chlorine 181 (1991) 579
Destro, R., Proton transfer in the solid state: thermodynamic parameters from an X-ray study in the temperature range 20–293 K 181 (1991) 232
Diezemann, G., see K. Börner 181 (1991) 563
Distefano, G., see A. Modelli 181 (1991) 361

Domen, K., see N. Akamatsu 181 (1991) 175
Dopfer, O., see G. Reiser 181 (1991) 1
Down, S.E., see D.E. Manolopoulos 181 (1991) 105
Dressler, R.A., see J.A. Gardner 181 (1991) 5
Drozdov, N.N., see A.P. Losev 181 (1991) 45
Du, K., X. Chen and D.W. Setser, Identification of the $SiCl_2(\tilde{a}^3B_1-\tilde{X}^1A_1)$ emission system and a flow reactor source of $SiCl_2(\tilde{a}^3B_1)$ 181 (1991) 344
Dubois, L.H., see B.J. Hinch 181 (1991) 10
Dubovitsky, V.A., see L.V. Berlyand 181 (1991) 450
Dumas, P. and Y.J. Chabal, Electron-energy-loss characterization of the H-terminated Si(111) and Si(100) surfaces obtained by etching in NH_4F 181 (1991) 537
Durup, J., see F.X. Gadea 181 (1991) 378
Dutta, P., D. Majumdar and S.P. Bhattacharyya, Global optimization of molecular geometry: a new avenue involving the use of Metropolis simulated annealing 181 (1991) 293
Dvorak, M.A., see S.W. Reeve 181 (1991) 259
Dye, R.C., R.E. Muenchausen and N.S. Nogar, Laser ablation of Y_2O_3 in an oxygen atmosphere 181 (1991) 531

Ebbesen, T.W., K. Tanigaki and S. Kuroshima, Excited-state properties of C_{60} 181 (1991) 501

Fallon, P.J., see P.L. Hansen 181 (1991) 367
Fastrup, B., see M. Muhler 181 (1991) 380
Feliz, M. and G. Ferraudi, Mechanism of the photoreversible $ClRe(CO)_3$(4-phenylpyridine)$_2$-induced reduction of a Cu(II) macrocyle 181 (1991) 201
Ferraudi, G., see M. Feliz 181 (1991) 201
Firth, D.W., see S.W. Reeve 181 (1991) 259
Furlani, A., see M.V. Andreocci 181 (1991) 582

Gadea, F.X. and J. Durup, Comment on "Photodissociation of Ar_n^+ cluster ions" 181 (1991) 378
Gardner, J.A., R.A. Dressler, R.H. Salter and E. Murad, A laboratory study of charge transfer and hydrogen atom pickup reactions in $N^+-H_2O(D_2O)$ collisions at suprathermal energies 181 (1991) 5
Gerber, R.B. and A.T. Yinnon, Properties of atom scattering from percolation lattices: He scattering from substitutionally disordered Xe+Kr monolayers 181 (1991) 553
Gole, J.L., see C.B. Winstead 181 (1991) 222
Gotts, N.G., R. Hallett, J.A. Smith and A.J. Stace, A new perspective to the photodissociation of cluster ions: the detection of neutral fragments following the photoexcitation of Ar_3^+ 181 (1991) 491
Grantier, D., see C.B. Winstead 181 (1991) 222
Gregori, A., see A. De Santis 181 (1991) 579
Grotheer, H.H., see H. Oser 181 (1991) 521
Grotheer, O., see H. Oser 181 (1991) 521
Guo, B.C. and A.W. Castleman Jr., The bonding strength of $Ag^+(C_2H_4)$ and $Ag^+(C_2H_4)_2$ complexes 181 (1991) 16

Haarer, D., see S. Jahn 181 (1991) 31
Hagiwara, S., see M. Sato 181 (1991) 526

Hallett, R., see N.G. Gotts 181 (1991) 491
Hammond, T., see C.B. Winstead 181 (1991) 222
Hamrick, Y.M., R.J. Van Zee and W. Weltner Jr., ESR of bimetallic transition-metal molecules: Mo and W with Cu, Ag and Au 181 (1991) 193
Han, K., X. Zheng, B. Sun, G. He and R. Zhang, Chemical reaction dynamics of barium atom with alkyl bromides 181 (1991) 474
Hansen, P.L., P.J. Fallon and W. Krätschmer, An EELS study of fullerite – C_{60}/C_{70} 181 (1991) 367
Häser, M., J. Almlöf and G.E. Scuseria, The equilibrium geometry of C_{60} as predicted by second-order (MP2) perturbation theory 181 (1991) 497
Hashimoto, H., see E. Nishizawa 181 (1991) 387
Hayamizu, K., see F. Separovic 181 (1991) 157
Hayashi, H., see M. Igarashi 181 (1991) 187
Hazell, I., see N. Bjerre 181 (1991) 301
He, G., see K. Han 181 (1991) 474
He, K.X., see C.B. Winstead 181 (1991) 222
Henri, G., see G. Reiser 181 (1991) 1
Herndon, W.C., see I. Agranat 181 (1991) 117
Hewitt, T.D. and D. Roy, Optical second harmonic generation as a probe of hydrogen evolution on copper 181 (1991) 407
Hinch, B.J. and L.H. Dubois, Water adsorption on Cu(111): evidence for Volmer–Weber film growth 181 (1991) 10
Hirose, C., see N. Akamatsu 181 (1991) 175
Hollauer, E. and M.A.C. Nascimento, A CASSCF description of the $n\pi^*$ singlet and triplet electronic excited states of the trans-glyoxal molecule 181 (1991) 463
Hong, S.D., see B.J. Yoon 181 (1991) 73
Howard, S.L., Low-energy threshold of the fine-structure transition in rare-gas charge transfer 181 (1991) 298
Howell, R., A.G. Taylor and D. Phillips, Laser-induced-fluorescence spectroscopy of the jet-cooled dimer of N-ethylcarbazole 181 (1991) 21
Hugerat, M., H. Levanon, E. Ojadi, L. Biczok and H. Linschitz, Multiple decay pathways and electron transfer in excited ion-paired zinc–copper porphyrins: laser photolysis and time-resolved EPR spectroscopy 181 (1991) 400
Hynes, A.J., Laser-induced fluorescence of silicon monoxide in a glow discharge and an atmospheric pressure flame 181 (1991) 237

Igarashi, M., Y. Sakaguchi, H. Hayashi and Y.J. I'Haya, Formation of α-keto alkyl radical in the photoreduction of chromone as studied by the laser photolysis–ESR technique 181 (1991) 187
I'Haya, Y.J., see M. Igarashi 181 (1991) 187

Jaeger, K., see L. Schriver 181 (1991) 505
Jahn, S., D. Haarer and B.M. Kharlamov, Spectral diffusion in organic glasses measured by transient hole recovery kinetics on a time scale 1–500 ms 181 (1991) 31
Janssen, M.H.M., see M. Dantus 181 (1991) 281
Jhon, M.S., see B.J. Yoon 181 (1991) 73
Jiang, R.-C. and T.-M. Su, Potassium-containing hypermetalated compounds and their water complexes: K_3OH, $K_4(OH)_2$, $K_2(OH)(H_2O)$ and $K_3(OH)(H_2O)$ 181 (1991) 373
Johnson, M.A., see P.J. Campagnola 181 (1991) 206

Jones, D., see A. Modelli 181 (1991) 361
Jones, H., see H. Birk 181 (1991) 245
Jones, H., see R.-D. Urban 181 (1991) 485
Judson, R., see D. Neuhauser 181 (1991) 151

Kajii, Y., T. Nakagawa, S. Suzuki, Y. Achiba, K. Obi and K. Shibuya, Transient absorption, lifetime and relaxation of C_{60} in the triplet state 181 (1991) 100
Kalontarov, L.I. and R. Marupov, Nonstationary dynamics of laser-induced destruction of polymeric solids 181 (1991) 27
Kaneko, K., see M. Sato 181 (1991) 526
Kaziska, A.J., M.I. Shchuka and M.R. Topp, Polarized fluorescence measurements of jet-cooled 2,5-diphenylfuran and van der Waals complexes 181 (1991) 134
Kedzierski, W., J.B. Atkinson and L. Krause, Laser-induced fluorescence from the $^3\Pi_u(4^3D)$ state of Zn_2 181 (1991) 427
Kellman, M.E., Z. Li and L. Xiao, Bond-selected bimolecular reactivity and phase space structure of intramolecular excited states 181 (1991) 141
Kharlamov, B.M., see S. Jahn 181 (1991) 31
Kimura, K., see M. Takahashi 181 (1991) 255
Kimura, Y., see Y. Yoshimura 181 (1991) 517
Kirsten, E., G. Parschau and K.H. Rieder, He diffraction and resonant scattering studies of Rh(110)(1×1)–2H 181 (1991) 544
Koyama, Y., see E. Nishizawa 181 (1991) 387
Krätschmer, W., see P.L. Hansen 181 (1991) 367
Krause, L., see W. Kedzierski 181 (1991) 427
Kroll, G.H., P.J. Benning, Y. Chen, T.R. Ohno, J.H. Weaver, L.P.F. Chibante and R.E. Smalley, Interaction of O_2 with C_{60}: photon-induced oxidation 181 (1991) 112
Kundu, L., A.K. Banerjee and M. Chowdhury, Two-photon absorption spectrum of gadolinium elpasolite 181 (1991) 569
Kuroshima, S., see T.W. Ebbesen 181 (1991) 501
Kuskov, V.L., see G.G. Lazarev 181 (1991) 512

Lane, P., see P. Politzer 181 (1991) 78
Launay, J.M. and S.B. Padkjær, Quantum-dynamical study of the $Cl+H_2 \rightarrow ClH+H$ reaction 181 (1991) 95
Lazarev, G.G., V.L. Kuskov, Ya.S. Lebedev and A. Rieker, The mechanism of formation of stable radical pairs by photolysis of 2,6-di-tert-butyl benzoquinone diazide in crystals of 2,6-di-tert-butyl-4-methylphenol 181 (1991) 512
Lebedev, Ya.S., see G.G. Lazarev 181 (1991) 512
Lendvay, G., Fractional bond orders in E_2H_4 molecules (E=Si, Ge, and Sn) 181 (1991) 88
Leone, S.R., see H.C. Miller 181 (1991) 250
Leopold, K.R., see S.W. Reeve 181 (1991) 259
Leszczyński, J., Theoretical evaluation of new nucleic acid bases. II. Ab initio study on tautomerism of pyrazolo[4,3-d]pyrimidine-5,7(4H,6H)-dione 181 (1991) 123
Levanon, H., see M. Hugerat 181 (1991) 400
Levine, R.D., see F. Remacle 181 (1991) 307
Li, Z., see M.E. Kellman 181 (1991) 141
Lindner, R., see G. Reiser 181 (1991) 1
Linschitz, H., see M. Hugerat 181 (1991) 400

Lorents, D.C., see N. Bjerre 181 (1991) 301
Losev, A.P., I.N. Nichiporovich, I.M. Byteva, N.N. Drozdov and I.F. Al Jghgami, The perturbing effect of solvents on the luminescence rate constant of singlet molecular oxygen 181 (1991) 45

Ma, Z. and K. Balasubramanian, Electronic states of WH 181 (1991) 467
Majumdar, D., see R. Sen 181 (1991) 288
Majumdar, D., see P. Dutta 181 (1991) 293
Manolopoulos, D.E., J.C. May and S.E. Down, Theoretical studies of the fullerenes: C_{34} to C_{70} 181 (1991) 105
Manzanares I., C., Photoacoustic overtone spectroscopy of liquids with continuous wave laser excitation 181 (1991) 51
March, N.H., see Á. Nagy 181 (1991) 279
Marshall, A.G., see R. Chen 181 (1991) 168
Marupov, R., see L.I. Kalontarov 181 (1991) 27
Maruyama, K., see A. Osuka 181 (1991) 413, 419
Masutani, K., see N. Akamatsu 181 (1991) 175
Mataga, N., see A. Osuka 181 (1991) 413, 419
May, J.C., see D.E. Manolopoulos 181 (1991) 105
May, V. and M. Schreiber, Electron-transfer dynamics in a donor–acceptor complex 181 (1991) 267
McLauchlan, K.A., see S.N. Batchelor 181 (1991) 327
Meijers, H.C. and D.A. Wiersma, Spectral diffusion in glasses: a photon-echo study of zincporphin in ethanol 181 (1991) 312
Melicherčík, M. and Ľ. Treindl, The ferroin-catalyzed Belousov–Zhabotinskii system with a "clock" behaviour 181 (1991) 575
Meyer, H.-D., see L.S. Cederbaum 181 (1991) 163
Mielke, Z. and L. Andrews, Infrared detection of the PCO radical and HPCO molecule 181 (1991) 355
Miller, H.C., K. Yamasaki, J.E. Smedley and S.R. Leone, An optically pumped ultraviolet laser on $SO(B^3\Sigma^- - X^3\Sigma^-)$ 181 (1991) 250
Modelli, A., D. Jones, G. Distefano and M. Tronc, Electron affinity and dissociative electron attachment in saturated dialkyl group-16 derivatives 181 (1991) 361
Muenchausen, R.E., see R.C. Dye 181 (1991) 531
Muhler, M., L.P. Nielsen and B. Fastrup, Comment on "On the role of promoters in promoted iron catalysts used in the industrial synthesis of ammonia" 181 (1991) 380
Müller-Dethlefs, K., see G. Reiser 181 (1991) 1
Murad, E., see J.A. Gardner 181 (1991) 5
Murray, J.S., see P. Politzer 181 (1991) 78

Nagy, Á. and N.H. March, Kinetic energy in terms of electron density for atomic s and p shells in a bare Coulomb field 181 (1991) 279
Nakagawa, T., see Y. Kajii 181 (1991) 100
Nakano, H., see T. Nogami 181 (1991) 385
Nascimento, M.A.C., see E. Hollauer 181 (1991) 463
Neuhauser, D., R. Judson and A. Perski, Inelastic probabilities above the three-body breakup threshold via a projection operator formalism 181 (1991) 151
Nguyen, M.T., K. Pierloot and L.G. Vanquickenborne, Fulminic acid (HCNO): bent versus linear equilibrium structure? 181 (1991) 83
Nichiporovich, I.N., see A.P. Losev 181 (1991) 45

Nielsen, L.P., see M. Muhler 181 (1991) 380
Nishimura, Y., see A. Osuka 181 (1991) 413, 419
Nishizawa, E., H. Hashimoto and Y. Koyama, Raman spectrum of bacteriochlorophyll **a** in the S_1 state 181 (1991) 387
Nogami, T., H. Nakano, Y. Shirota, S. Umegaki, Y. Shimizu, T. Uemiya and N. Yasuda, Optical second-harmonic generation from a series of [cyano-(alkyloxycarbonyl)methylene]-2-ylidene-1,3-dithiole and their methyl and dimethyl derivates, Chem. Phys. Letters 155 (1989) 338. Erratum 181 (1991) 385
Nogar, N.S., see R.C. Dye 181 (1991) 531
Noid, D.W., see J.A. Darsey 181 (1991) 386

Obi, K., see Y. Kajii 181 (1991) 100
Ohno, T.R., see G.H. Kroll 181 (1991) 112
Ojadi, E., see M. Hugerat 181 (1991) 400
Onishi, T., see N. Akamatsu 181 (1991) 175
Oser, H., D. Walter, N.D. Stothard, O. Grotheer and H.H. Grotheer, Application of flow reactors to very low pressures by using $CH_3+O(^3P)$ as a test reaction 181 (1991) 521
Osuka, A., K. Maruyama, N. Mataga, T. Asahi, I. Yamazaki, N. Tamai and Y. Nishimura, Photoinduced electron transfer reactions in quinone-linked zinc porphyrin arrays 181 (1991) 413
Osuka, A., H. Yamada, K. Maruyama, N. Mataga, T. Asahi, I. Yamazaki and Y. Nishimura, Picosecond dynamics of intramolecular singlet excitation energy transfer and photoinduced electron transfer in covalently-linked carotenoid–porphyrin and carotenoid–porphyrin–pyromellitimide molecules 181 (1991) 419
Ozeki, H., see M. Takahashi 181 (1991) 255

Padkjær, S.B., see J.M. Launay 181 (1991) 95
Parschau, G., see E. Kirsten 181 (1991) 544
Partridge, H., see C.W. Bauschlicher Jr. 181 (1991) 129
Perski, A., see D. Neuhauser 181 (1991) 151
Petersson, G.A., see W.A. Shirley 181 (1991) 588
Phillips, D., see R. Howell 181 (1991) 21
Picorel, R., see N.R.S. Reddy 181 (1991) 391
Pierloot, K., see M.T. Nguyen 181 (1991) 83
Politzer, P., J.S. Murray, P. Lane, P. Sjoberg and H.G. Adolph, Shock-sensitivity relationships for nitramines and nitroaliphatics 181 (1991) 78
Polomsky, P., see R.-D. Urban 181 (1991) 485
Polzonetti, G., see M.V. Andreocci 181 (1991) 582
Prasad, S.D., see A.S. Datar 181 (1991) 445

Rachinsky, A.G., see M.F. Budyka 181 (1991) 59
Radhakrishnan, T.P., see I. Agranat 181 (1991) 117
Radhakrishnan, T.P., Ground-state spin of conjugated non-Kekulé molecules 181 (1991) 455
Reddy, N.R.S., G.J. Small, M. Seibert and R. Picorel, Energy transfer dynamics of the B800–B850 antenna complex of *Rhodobacter sphaeroides*: a hole burning study 181 (1991) 391
Reeve, S.W., M.A. Dvorak, D.W. Firth and K.R. Leopold, Coriolis coupling in Ar–HCl 181 (1991) 259
Reiser, G., O. Dopfer, R. Lindner, G. Henri, K. Müller-Dethlefs, E.W. Schlag and S.D. Colson, A new approach to vibrational spectroscopy of ion clusters: the "zero kinetic energy (ZEKE)" photoelectron spectrum of the phenol–water complex 181 (1991) 1

Reisfeld, R., see V. Chernyak 181 (1991) 39
Remacle, F. and R.D. Levine, The maximum entropy of an optical spectrum and the re-distribution in phase space 181 (1991) 307
Rieder, K.H., see E. Kirsten 181 (1991) 544
Rieker, A., see G.G. Lazarev 181 (1991) 512
Rocca, D., see A. De Santis 181 (1991) 579
Rössler, E., see K. Börner 181 (1991) 563
Roy, D., see T.D. Hewitt 181 (1991) 407
Russo, M.V., see M.V. Andreocci 181 (1991) 582

Sakaguchi, Y., see M. Igarashi 181 (1991) 187
Salter, R.H., see J.A. Gardner 181 (1991) 5
Sato, M., T. Sukegawa, T. Suzuki, S. Hagiwara and K. Kaneko, Surface fractal dimensional change of microporous carbon fibers with partial graphitization 181 (1991) 526
Scheraga, H.A., see B.J. Yoon 181 (1991) 73
Schlag, E.W., see G. Reiser 181 (1991) 1
Schreiber, M., see V. May 181 (1991) 267
Schriver, A., see L. Schriver 181 (1991) 505
Schriver, L., D. Carrere, A. Schriver and K. Jaeger, Matrix-isolation photolysis of SO_2, O_3 and H_2O: evidence for the $H_2O{:}SO_3$ complex 181 (1991) 505
Scuseria, G.E., see M. Häser 181 (1991) 497
Sebastian, K.L., see K. Sumithra 181 (1991) 549
Seibert, M., see N.R.S. Reddy 181 (1991) 391
Sen, R., D. Majumdar, S.P. Bhattacharyya and S.N. Bhattacharyya, Hyperpolarizabilities of twisted-intramolecular-charge-transfer (TICT) molecules: a case study on *p*-dimethylaminobenzonitrile (DMABN) and *p*-dimethylaminonitrosobenzene (DMANB) 181 (1991) 288
Separovic, F., K. Hayamizu, R. Smith and B.A. Cornell, C-13 chemical shift tensor of L-tryptophan and its application to polypeptide structure determination 181 (1991) 157
Setser, D.W., see K. Du 181 (1991) 344
Shchuka, M.I., see A.J. Kaziska 181 (1991) 134
Shibuya, K., see Y. Kajii 181 (1991) 100
Shimizu, H., see N. Akamatsu 181 (1991) 175
Shimizu, Y., see T. Nogami 181 (1991) 385
Shirley, W.A. and G.A. Petersson, The convergence of coupled-cluster methods for Be_2 181 (1991) 588
Shirota, Y., see T. Nogami 181 (1991) 385
Shkrob, I.A., see S.N. Batchelor 181 (1991) 327
Shushin, A.I., The effect of the spin exchange interaction on SNP and RYDMR spectra of geminate radical pairs 181 (1991) 274
Sigüenza, C.L., Activation of the infrared multiphoton dissociation of CF_2HCl 181 (1991) 351
Sjoberg, P., see P. Politzer 181 (1991) 78
Skancke, A., see I. Agranat 181 (1991) 117
Small, G.J., see N.R.S. Reddy 181 (1991) 391
Smalley, R.E., see G.H. Kroll 181 (1991) 112
Smedley, J.E., see H.C. Miller 181 (1991) 250
Smith, I.W.M. and X.-F. Yang, Vibrational energy transfer in binary collisions between isotopomers of HCN 181 (1991) 335
Smith, J.A., see N.G. Gotts 181 (1991) 491

Smith, R., see F. Separovic 181 (1991) 157
Sodupe, M. and C.W. Bauschlicher Jr., Al^+–ligand binding energies 181 (1991) 321
Stace, A.J., see N.G. Gotts 181 (1991) 491
Stothard, N.D., see H. Oser 181 (1991) 521
Su, T.-M., see R.-C. Jiang 181 (1991) 373
Sukegawa, T., see M. Sato 181 (1991) 526
Sumithra, K. and K.L. Sebastian, Reaction dynamics on surfaces in the harmonic approximation 181 (1991) 549
Sun, B., see K. Han 181 (1991) 474
Suzuki, S., see Y. Kajii 181 (1991) 100
Suzuki, T., see M. Sato 181 (1991) 526

Takahashi, M., H. Ozeki and K. Kimura, A new high-resolution threshold photoelectron analyzer: observation of rotational structure of NO^+ cation 181 (1991) 255
Tamai, N., see A. Osuka 181 (1991) 413
Tanigaki, K., see T.W. Ebbesen 181 (1991) 501
Taylor, A.G., see R. Howell 181 (1991) 21
Topp, M.R., see A.J. Kaziska 181 (1991) 134
Traytak, S.D., The rate constant of diffusion-limited reactions in a weak external electric field 181 (1991) 558
Treindl, Ľ., see M. Melicherčík 181 (1991) 575
Tronc, M., see A. Modelli 181 (1991) 361

Uemiya, T., see T. Nogami 181 (1991) 385
Ullrich, J., see V. Aust 181 (1991) 213
Umegaki, S., see T. Nogami 181 (1991) 385
Upadhyaya, B.R., see J.A. Darsey 181 (1991) 386
Urban, R.-D., P. Polomsky and H. Jones, A reassessment of the ground-state infrared spectrum of BiH and BiD 181 (1991) 485

Vanquickenborne, L.G., see M.T. Nguyen 181 (1991) 83
Van Zee, R.J., see Y.M. Hamrick 181 (1991) 193
Varma, V.S., see R.K. Agrawal 181 (1991) 441
Vieth, H.M., see K. Börner 181 (1991) 563
Von Schütz, J.U., see V. Aust 181 (1991) 213

Walter, D., see H. Oser 181 (1991) 521
Wang, M., see R. Chen 181 (1991) 168
Waugh, K.C., Reply to the comment on "On the role of promoters in promoted iron catalysts used in the industrial synthesis of ammonia" 181 (1991) 383
Weaver, J.H., see G.H. Kroll 181 (1991) 112
Weltner Jr., W., see Y.M. Hamrick 181 (1991) 193
Wiersma, D.A., see H.C. Meijers 181 (1991) 312
Winstead, C.B., K.X. He, D. Grantier, T. Hammond and J.L. Gole, Electric-field-enhanced laser-induced plasma spectroscopy of jet-cooled silicon trimer 181 (1991) 222
Wolf, H.C., see V. Aust 181 (1991) 213

Xiao, L., see M.E. Kellman 181 (1991) 141

Yamada, H., see A. Osuka 181 (1991) 419
Yamasaki, K., see H.C. Miller 181 (1991) 250
Yamazaki, I., see A. Osuka 181 (1991) 413, 419
Yang, X.-F., see I.W.M. Smith 181 (1991) 335
Yasuda, N., see T. Nogami 181 (1991) 385
Yinnon, A.T., see R.B. Gerber 181 (1991) 553
Yoon, B.J., S.D. Hong, M.S. Jhon and H.A. Scheraga, Calculation of the entropy and the chemical potential of fluids and solids from the radial free-space distribution function 181 (1991) 73
Yoshimura, Y. and Y. Kimura, Solvent-density dependence of the unimolecular reaction rate: dissociation reaction of 2-methyl-2-nitrosopropane dimer in carbon dioxide from gas to liquid states 181 (1991) 517

Zewail, A.H., see M. Dantus 181 (1991) 281
Zhang, J.Z.H., Variational calculation of integral cross sections for the reaction $F+H_2 \rightarrow HF+H$ 181 (1991) 63
Zhang, R., see K. Han 181 (1991) 474
Zheng, X., see K. Han 181 (1991) 474